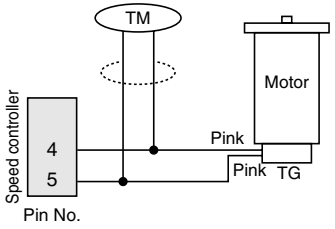
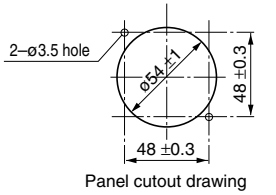
5. Options

Tachometer (DVOP001)

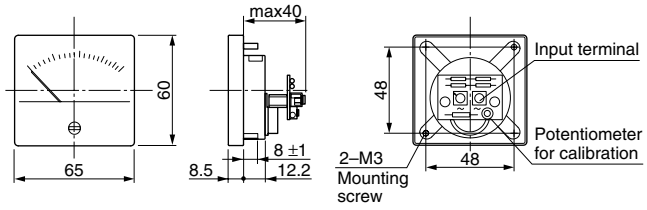
This tachometer is especially designed to operate with our speed controller so that it can provide easier displaying of motor speed.

Unit: mm





Panel cutout drawing



<Precautions>

- Connect the tachometer in parallel with the tachometer generator (TG).
- If the tachometer (TM) requires longer connection cable, use shielded twisted pair cable. Don't ground shielding of the cable.
- Accuracy of tachometer readings will depend on variation in motor performance and operating environment (temperature and noise). The tachometer should be used as a rough indicator.

<Note>

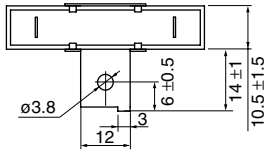
Calibrate the scale of the tachometer (TM) from the potentiometer on the rear panel.

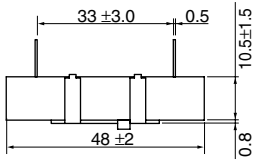
1. While running the motor at its full rotation speed without load, adjust to 1450 min^{-1} if power supply is at 50 Hz, or 1750 min^{-1} if 60 Hz.
2. Monitor the output signal of the TG on an oscilloscope and determine the frequency. And adjust:
   rotating speed N (min^{-1}) = 5 x f (Hz)
   Caution: Since the circuit is not isolated from the power supply, use an insulated tool such as an insulated screwdriver to protect against electric shock.

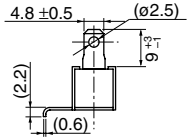
External braking resistor (DVOP003)

5.6 Ω 10W

Unit: mm







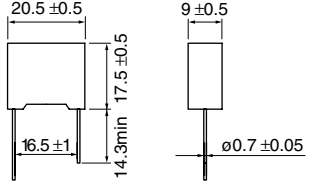
<Precautions>

The resistance of DVOP003 is 5.6 Ω. When using commercially available resistor, choose 4.7-6.8 Ω, 10 W or larger.

5. Options

Spark killer (DVOP008)

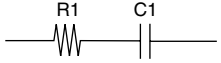
0.1 μ F 120 Ω



Unit: mm

<Precautions>

The capacitance of capacitor in the DVOP008 is 0.1 F and the resistance of the internal resistor is 120 Ω. When using commercially available spark killer, choose one consisting of the following parts:

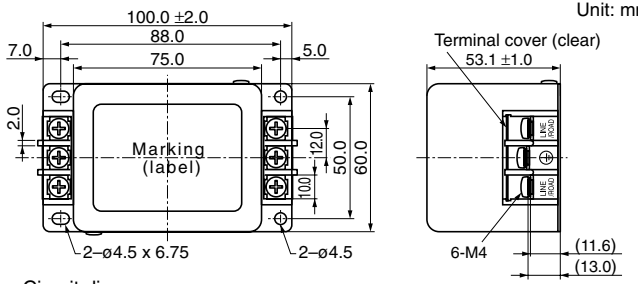


R1 = 10 – 200 Ω (1/4 W or larger)
C1 = 0.1 – 0.33 μF (AC250WV)

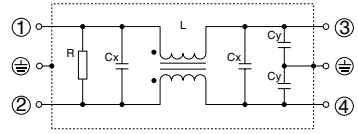
Noise filter (DVOP3611-5)

Type SUP-EQ5-ER-6: Okaya Electric Industries Co., Ltd.

Unit: mm



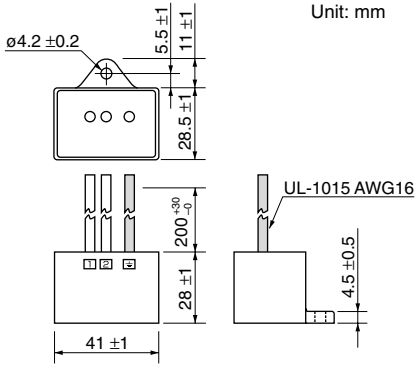
<Circuit diagram>



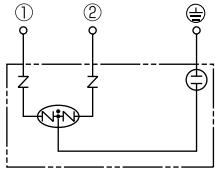
Surge absorber (DVOP4190)

Type R.A.V-781BWZ-4: Okaya Electric Industries Co., Ltd.

Unit: mm



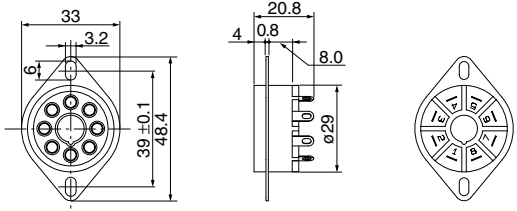
<Circuit diagram>



Octal pin socket (DVOP4560)

Type S-3898: Sato Parts Co., Ltd.

Unit: mm



English